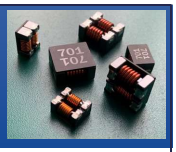
Automotive Power Common Mode Chokes



ACMP-Q7040

Request Samples | Check Inventory

7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- AEC-Q200 compliant, Grade 1
- PPAP ready and supported
- Manufactured in TS/IATF 16949 production lines
- Excellent impedance characteristics
- Rated current up to 15A
- Extremely low DCR

Applications

- DC power line common mode noise suppression.
- Multimedia devices
- Automotive power train
- Automotive infotainment

Electrical Specifications

Part Number	Impedance (Ω) @100MHz		DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance (MΩ)
	Min	Typ.	Max	Max	Max	Min
ACMP-Q7040-700	40	70	5	15	80	10
ACMP-Q7040-141	100	140	10	9	80	10
ACMP-Q7040-301	225	300	10	5	80	10
ACMP-Q7040-501	400	500	10	5	80	10
ACMP-Q7040-701	500	700	15	4	80	10
ACMP-Q7040-102	800	1020	17	3	80	10
ACMP-Q7040-132	910	1300	20	3	80	10

Rated Current is based on an Irms temperature rise of 40°C
ACMP-Q7040 is AEC-Q200 Automotive certified
ACMP-Q7040 Series is RoHS Compliant and Pb free
Operating Temperature: -40°C to +125°C (Including self-heating)
Storage Temperature (on PCB): -40°C to +125°C
Storage (in original packaging): <40°C, <60% RH

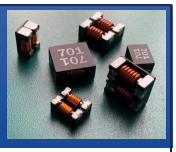
ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS
ISO9001-2015
CERTIFIED

Automotive Power Common Mode Chokes



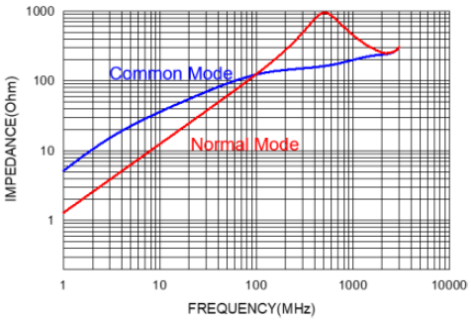
ACMP-Q7040

Request Samples

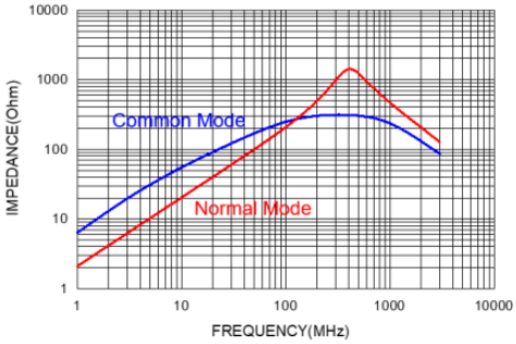
Check Inventory

7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

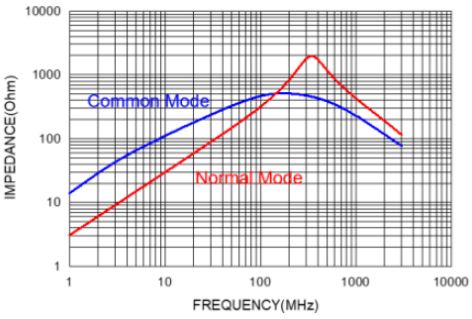
ACMP-Q7040-700



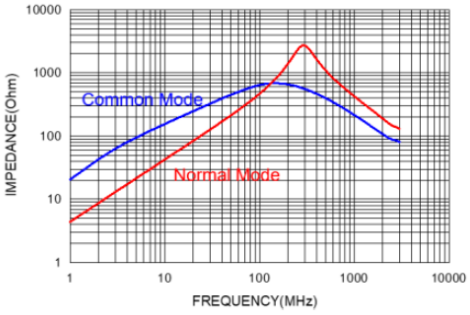
ACMP-Q7040-141



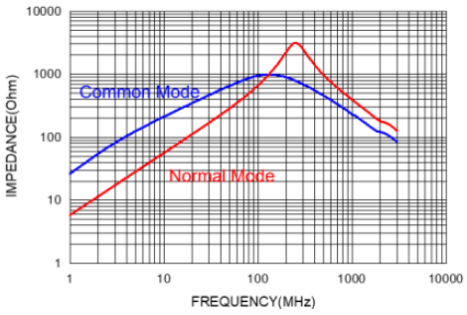
ACMP-Q7040-301



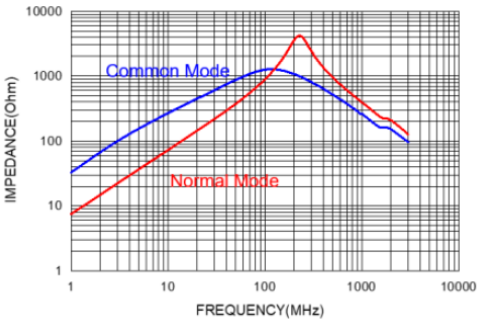
ACMP-Q7040-501



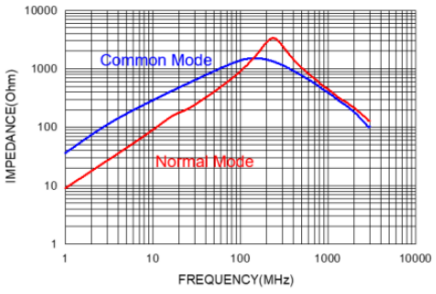
ACMP-Q7040-701



ACMP-Q7040-102



ACMP-Q7040-132



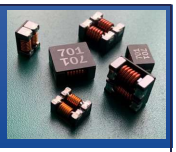
ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS
ISO9001-2015
CERTIFIED

Automotive Power Common Mode Chokes

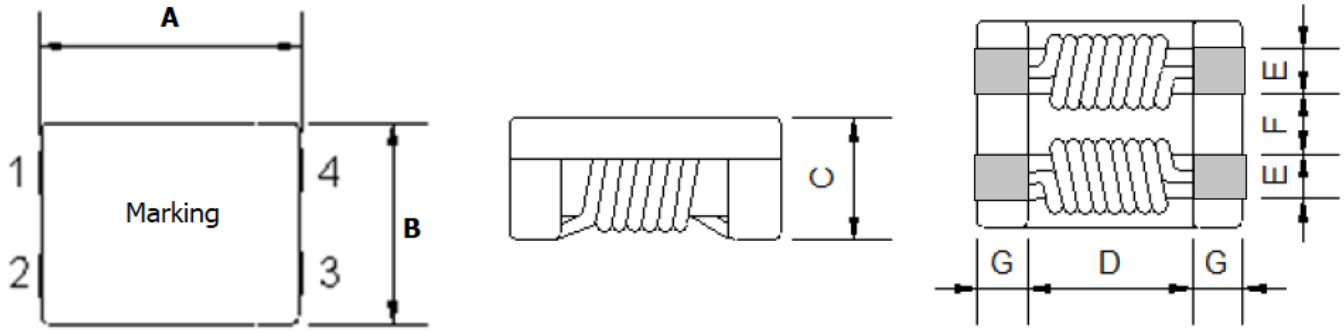


ACMP-Q7040

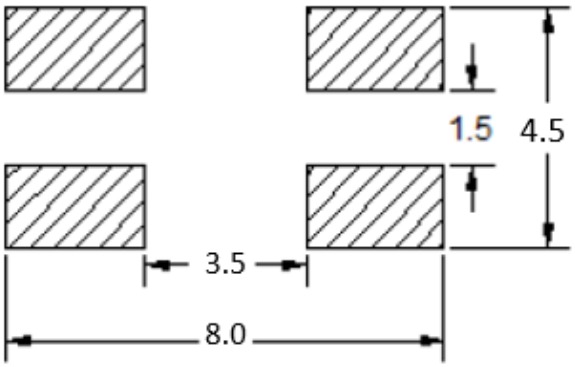
Request Samples | Check Inventory

7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



A	B	C	D	E	F	G
7.0 ±0.5	6.0 ±0.5	3.8 MAX	3.5 Typ.	1.5 ±0.5	1.5 ±0.5	1.7 ±0.2



Recommended Layout

Dimensions: mm

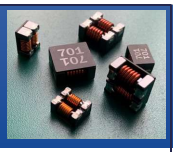
ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS ISO9001-2015 CERTIFIED

Automotive Power Common Mode Chokes

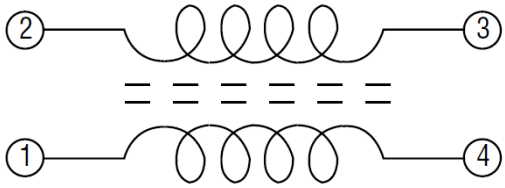


ACMP-Q7040

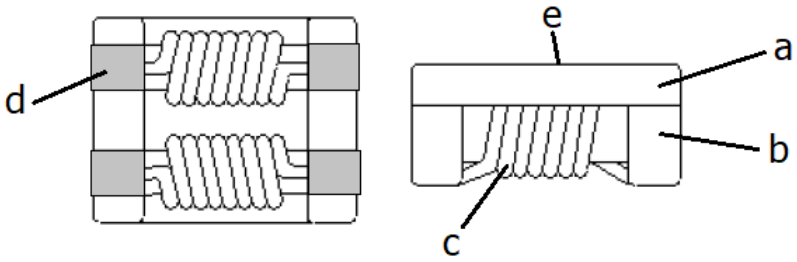
Request Samples | Check Inventory

7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Schematic



Materials



	Description
a	Upper Plate
b	Core
c	Wire
d	Electrode
e	Marking

Part Identification

ACMP - ☐ ☐ - ☐ - ☐

AEC-Q200
Q: Automotive Grade
Blank: Commercial grade

Package L x H (mm)
7040: 7.0mm x 3.8mm

Impedance (Ω)
i.e. 701: 700Ω Typical

Packaging
T: Tape & Reel 1500 pcs

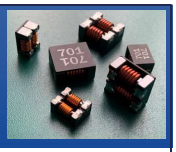
ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS
ISO9001-2015
CERTIFIED

Automotive Power Common Mode Chokes

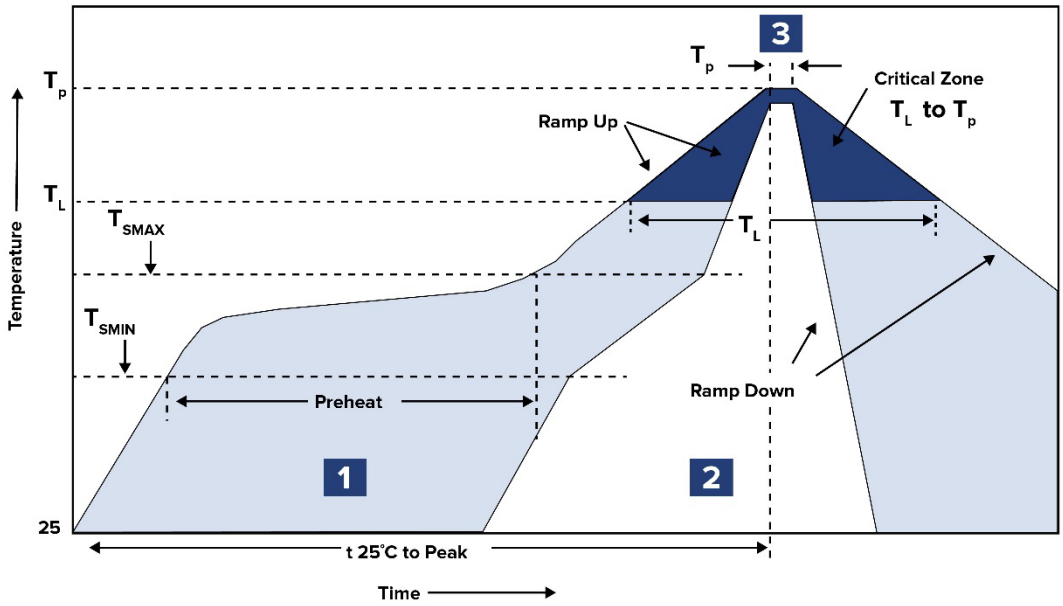


ACMP-Q7040

Request Samples | Check Inventory

7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ T_{SMAX} 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 250°C ± 5°C	30 sec. MAX

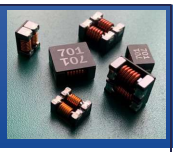
ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS
ISO9001-2015
CERTIFIED

Automotive Power Common Mode Chokes



ACMP-Q7040

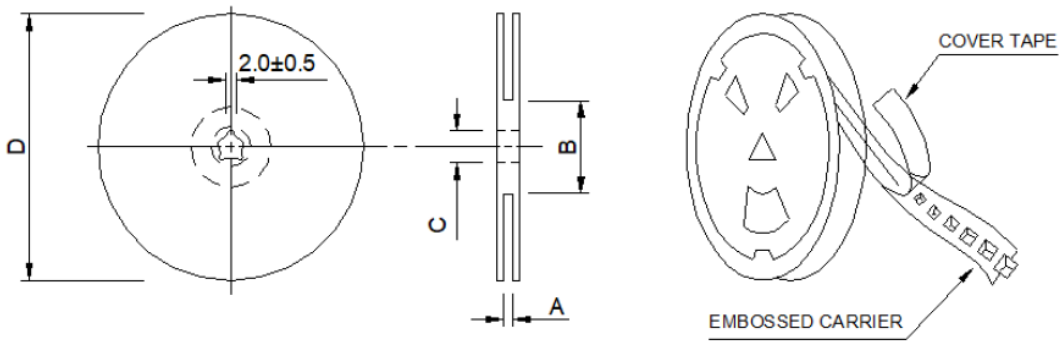
Request Samples

Check Inventory

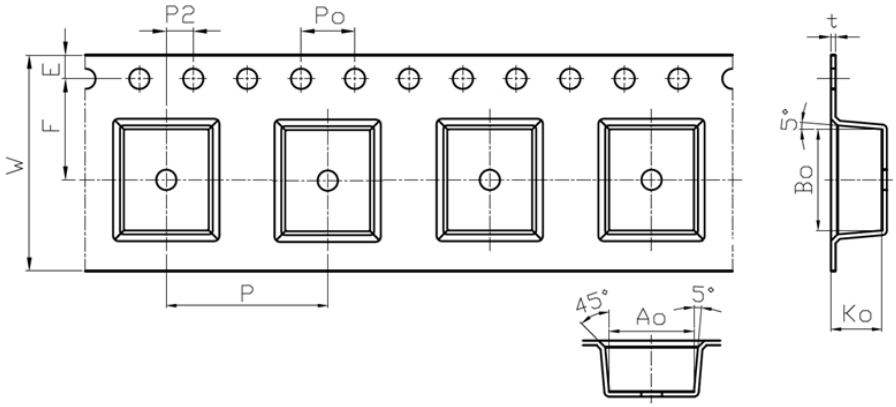
7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape & Reel: 1500pcs/reel



Series	A	B	C	D
ACMP-Q7040	16.0 ±0.5	100.0 ±2.0	13.5 ±0.5	330



W	P	E	F	P0	P2	Bo	Ao	Ko	t
16.0 ±0.30	12 ±0.10	1.75 ±0.10	7.5 ±0.10	4.0 ±0.10	2.0 ±0.10	7.5 ±0.10	6.3 ±0.10	3.8 ±0.10	0.35 ±0.05

Dimensions: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.

ABRACON

5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release
3/31/2022

ABRACON IS
ISO9001-2015
CERTIFIED